

FIG. 1A

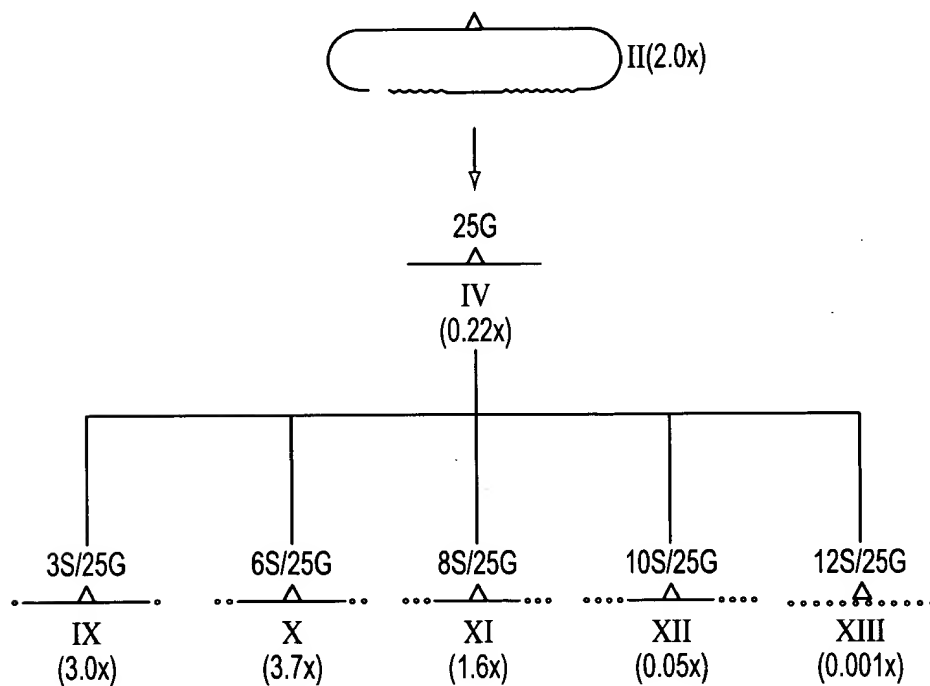


FIG. 1B



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PLASMIDS, DNA TARGETS AND CHIMERIC OLIGONUCLEOTIDES

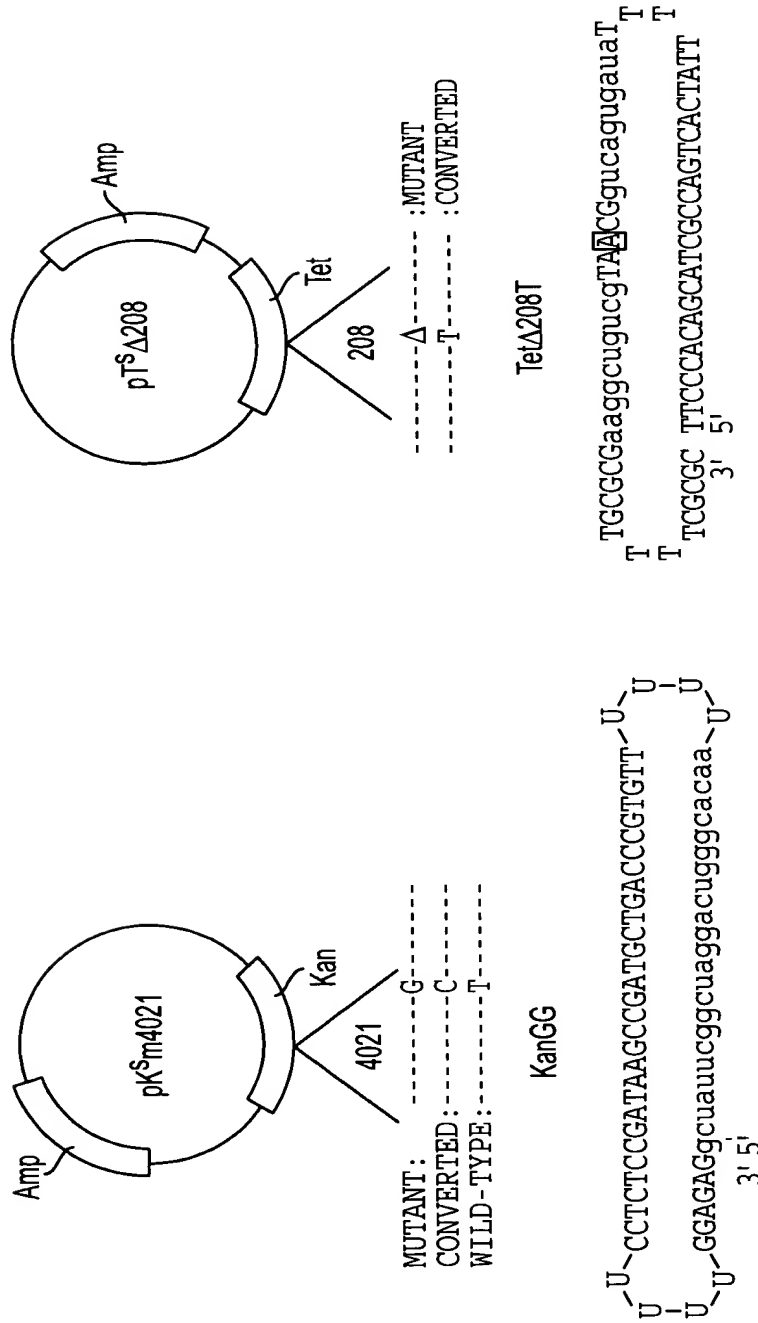
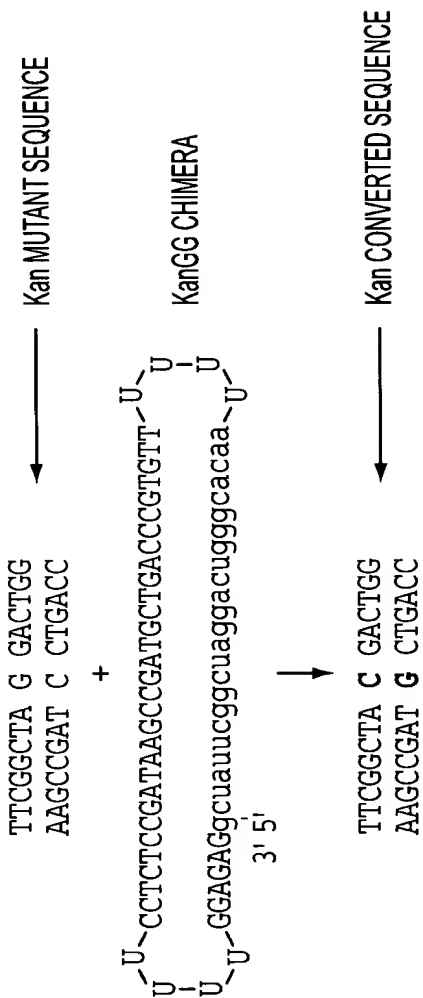


FIG. 1C



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DNA SEQUENCE ANALYSIS

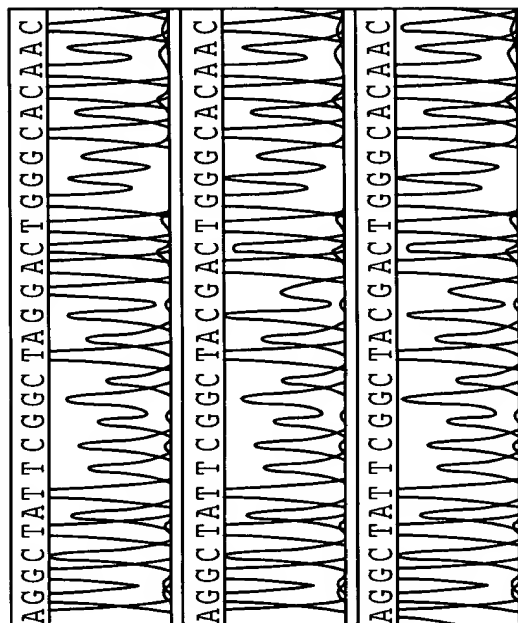


FIG. 1D



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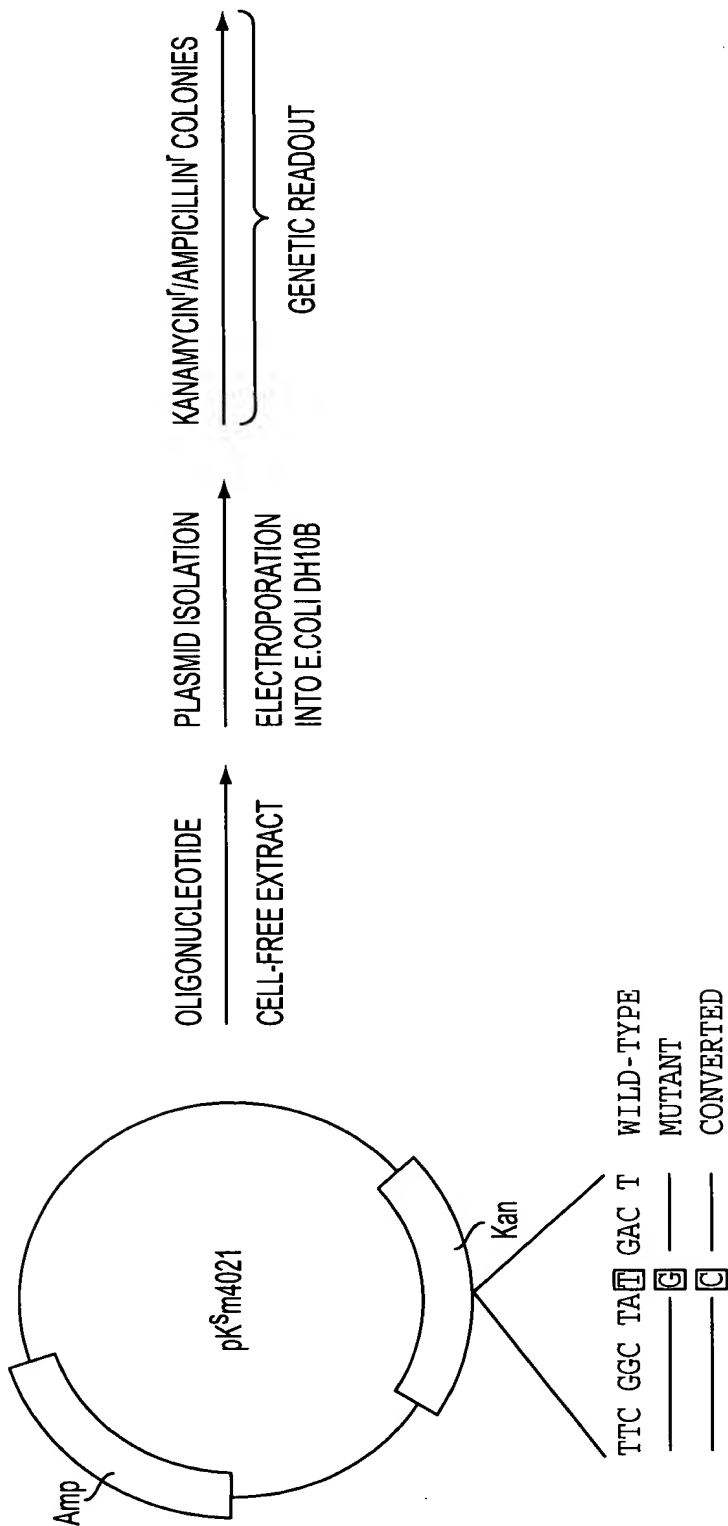
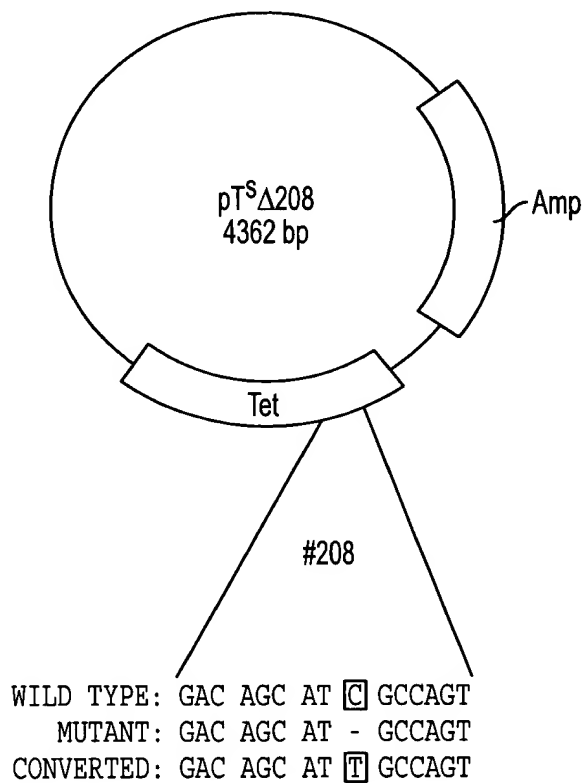


FIG. 2



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SEQUENCE ANALYSIS OF Tet^r PLASMID Δ208

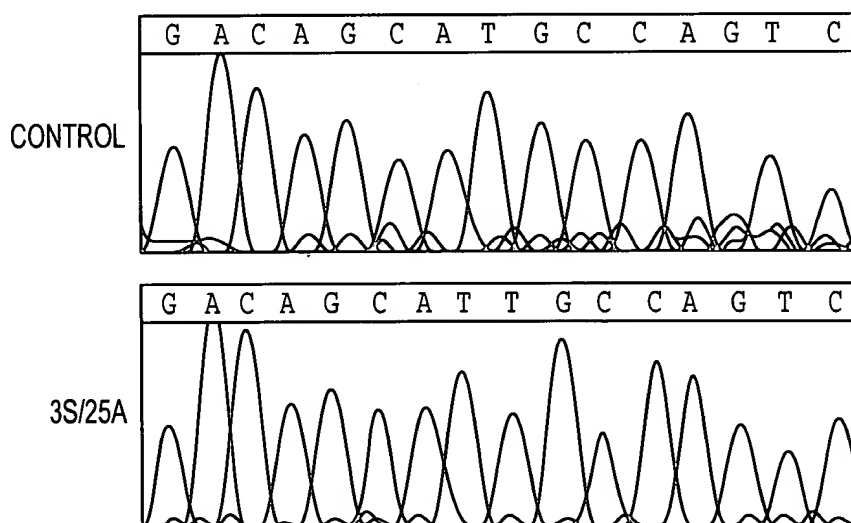


FIG. 3



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DNA SEQUENCE ANALYSIS OF Kan^r PLASMIDS

| TARGET CODON DISTRIBUTION | | | | | |
|---------------------------|-----|-----|---------|------|------|
| OLIGOMER | TAG | TAC | TAC/TAG | TGG | TCG |
| 1) 3S/25G (20) | --- | + | --- | --- | --- |
| 2) 6S/25G (20) | --- | + | --- | --- | --- |
| 3) 8S/25G (20) | --- | + | --- | --- | --- |
| 4) 10S/25G (18) | --- | + | --- | +(2) | +(2) |
| 5) 25S/25G (4) | --- | --- | +(2) | +(2) | --- |

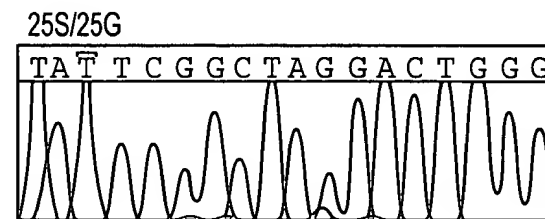
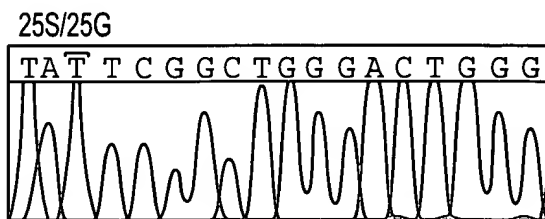
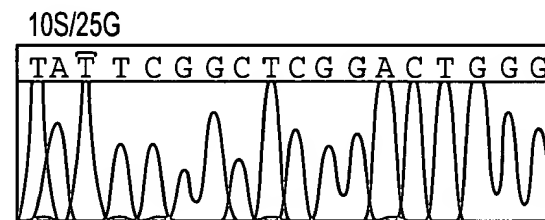
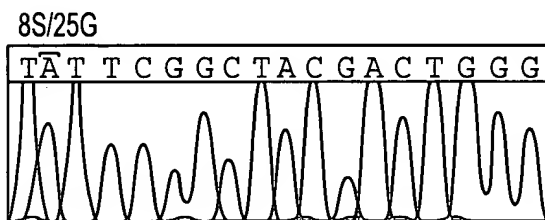
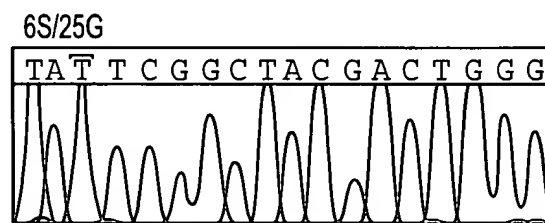
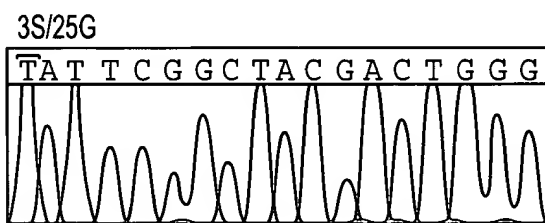


FIG. 4



Applicants: Kmiec *et al.* NaPro-4
Application No.: 09/818,875
Filed: March 27, 2001
For : TARGETED CHROMOSOMAL GENOMIC
ALTERATIONS WITH MODIFIED SINGLE
STRANDED OLIGONUCLEOTIDES

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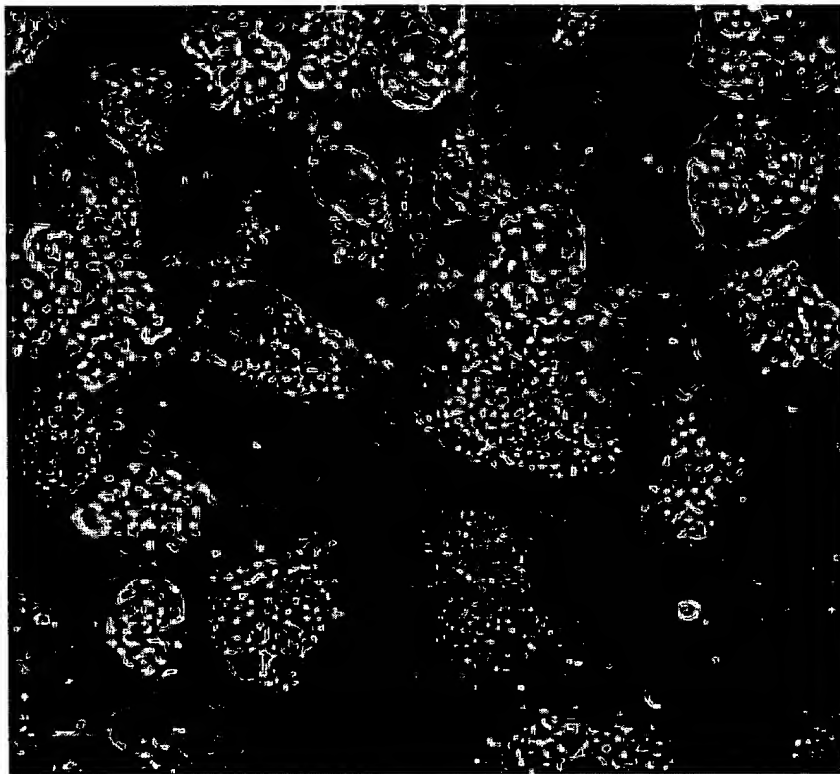


FIG. 5



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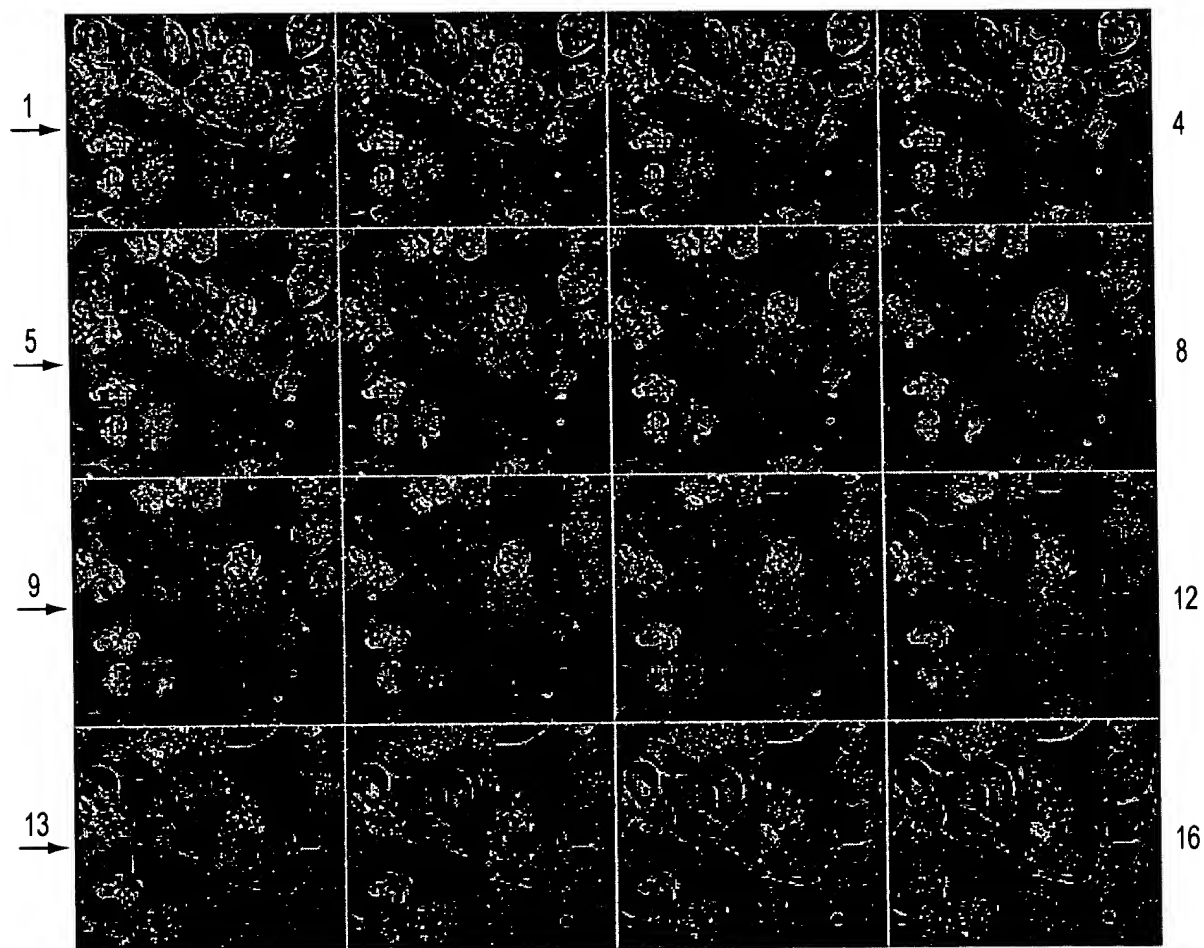


FIG. 6



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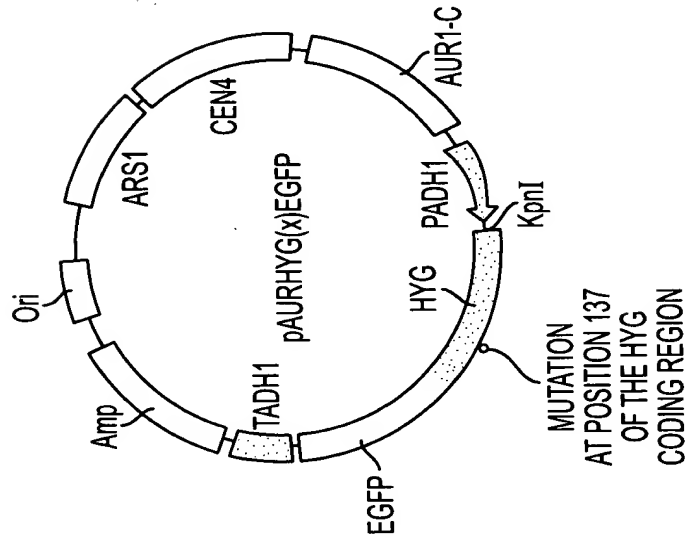


FIG. 7C

SEQUENCE OF NORMAL ALLELE: GTGGATATGTCCT
 TARGET/EXISTING MUTANT: GTGGATAAATGTCCT
 DESIRED ALTERATION: GTGGATACGTCCT

FIG. 7A

SEQUENCE OF NORMAL ALLELE: GTGGATATGTCCT
 TARGET/EXISTING MUTANT: GTGGATAGTCCT
 DESIRED ALTERATION: GTGGATACGTCCT

FIG. 7B

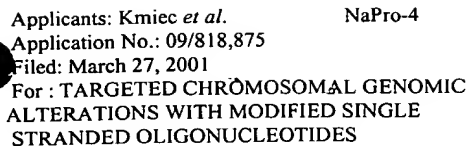
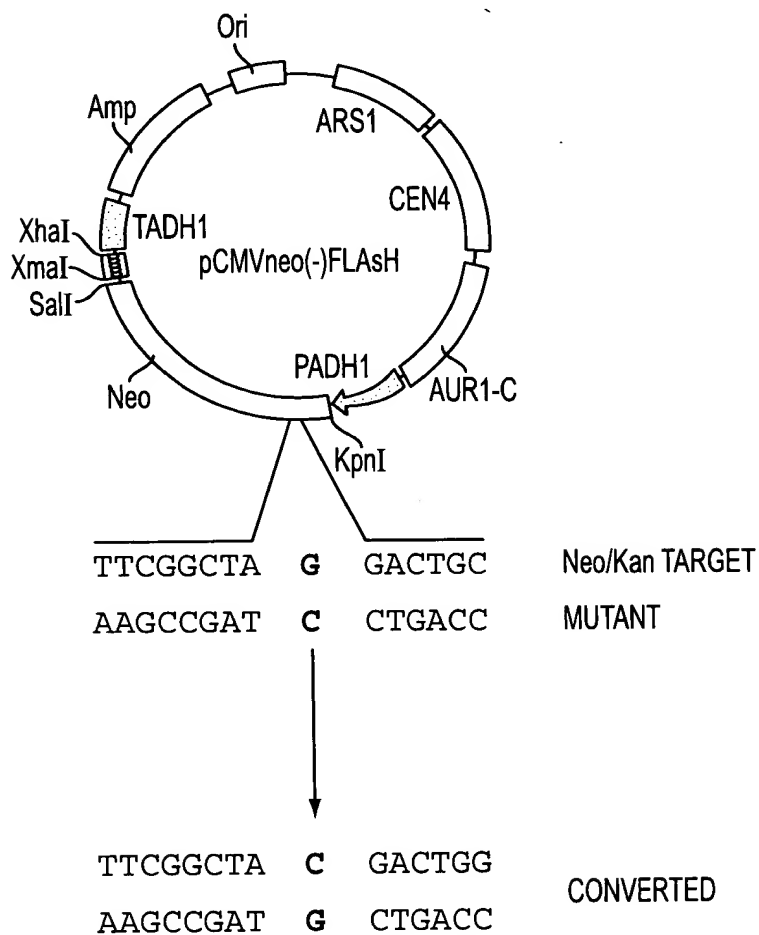


FIG. 8



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FUSION GENE FOR LIGAND BINGING

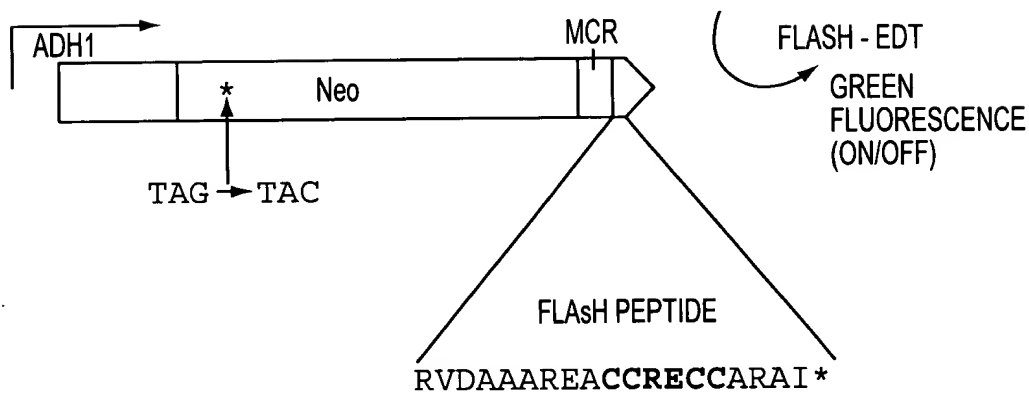


FIG. 9



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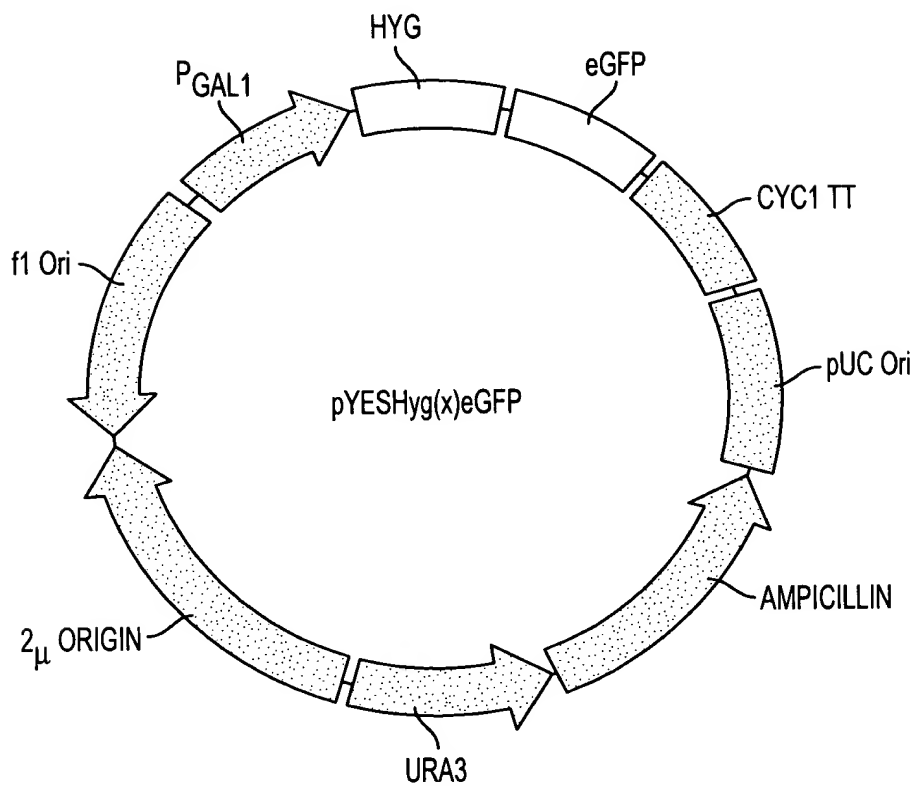


FIG. 10